



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/building](http://www.miamidade.gov/building)

## NOTICE OF ACCEPTANCE (NOA)

Armor Screen Corp.  
1881 Old Okeechobee Road  
West Palm Beach, FL 33409

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: "Armor Screen Series 63 " Flexible Wind Abatement System

**APPROVAL DOCUMENT:** Drawing No. 01-2010, titled " Armor Screen Series 63 Hurricane Protection ", sheets 1 through 11 of 11, prepared by Gary D. Foreman, P.E., dated October 01, 2010, signed and sealed by Gary D. Foreman, on February 16 & 17, 2012, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, City, State, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 10-1104.03 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
03/22/2012

NOA No. 12-0223.13  
Expiration Date: 01/26/2017  
Approval Date: 03/22/2012  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-1104.03**

**A. DRAWINGS**

1. *Drawing No. 01-2010, titled "Armor Screen Series 63 Hurricane Protection", sheets 1 through 11 of 11, prepared by Gary D. Foreman, P.E., dated October 01, 2010, signed and sealed by Gary D. Foreman, on January 09, 2012.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Armor Screen Flexible Hurricane Wind Abatement System, prepared by Fenestration Testing Laboratory, Inc., Report No. 5889, dated August 26, 2009, signed and sealed by Julio E. Gonzalez, P.E.*
2. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Armor Screen Flexible Hurricane Wind Abatement System, prepared by Fenestration Testing Laboratory, Inc., Report No. 5533, dated February 08, 2008, signed and sealed by Marlin Brinson, P.E.*
3. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Armor Screen Flexible Hurricane Wind Abatement System, prepared by Fenestration Testing Laboratory, Inc., Report No. 5279, dated August 26, 2009, signed and sealed by Julio E. Gonzalez, P.E.*

**C. CALCULATIONS**

1. *Comparative Analysis and Anchor calculations dated October 20, 2010, 66 pages, prepared by Gary D. Foreman, P.E., signed and sealed by Gary d. Foreman, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).*

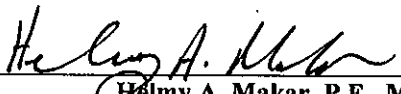
**E. MATERIAL CERTIFICATIONS**

1. *Fabric specifications.*

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. 01-2010, titled "Armor Screen Series 63 Hurricane Protection", sheets 1 through 11 of 11, prepared by Gary D. Foreman, P.E., dated October 01, 2010, signed and sealed by Gary D. Foreman, on February 16 & 17, 2012.*

  
Helmy A. Makar, P.E., M.S.  
PERA-Product Control Unit Supervisor  
NOA No. 12-0223.13  
Expiration Date: 01/26/2017  
Approval Date: 03/22/2012

**Armor Screen Corp.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

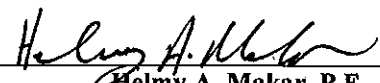
1. *By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. OTHERS**

1. *Florida Building Code, 2010 Edition, Compliance Statement Letter by GD Foreman PE, SE, AIA, dated February 16, 2012, signed and sealed by Gary D Foreman, P.E.*



Helmy A. Makar, P.E., M.S.  
PERA-Product Control Unit Supervisor  
NOA No. 12-0223.13  
Expiration Date: 01/26/2017  
Approval Date: 03/22/2012

# ARMOR SCREEN SERIES 63 HURRICANE PROTECTION

## GENERAL NOTES:

- This Wind Abatement / Impact Hurricane Protection System is designed and tested to comply with the High Velocity Hurricane Zone (HVHZ) of the Florida Building Code, 2007 and 2010 Editions.
- For use with 2010 FBC, the design pressures as determined from Section 1620 and ASCE 7-10 must be multiplied by 0.6.
- Testing meets the current Florida Building Code; TAS 201; TAS 202; TAS 203 and fulfills its requirement for opening protection.
- The unbreached envelope criterion is met when the system encloses the protected opening all around.
- The open areas in the Armor Screen Fabric are small enough that the surface tension of water causes the barrier screen to become solid in the presence of rain, and in actual hurricane conditions has been shown to prevent damaging voluminous water intrusion, even from torrential rains.
- Product Marking: A permanent label shall be affixed to the screen barrier with the following statement: "Armor Screen Corporation, Current Address, "Miami-Dade County Product Control Approved", Patented and Patents Pending, US Patent No. 6176050".

## PRODUCT DATA:

- Geosynthetic hurricane screen: The hurricane screen shall be produced from a polypropylene, woven geotextile fabric with filaments woven such that the filaments retain dimensional stability relative to each other.  
The woven geotextile fabric shall have the following minimum average roll values:

Grab Textile Strength	(ASTM D4632)	425 x 325 LBS
Puncture Strength	(ASTM D4833)	130 LBS
Mullen Burst	(ASTM D3786)	675 PSI
Trapezoidal Tear	(ASTM D4533)	150 x 125 LBS
Wide Width Tensile Strength	(ASTM D4595)	225 x 205 LBS/IN
Thickness	(ASTM D5199)	20 MIL.
Wide Width Elongation	(ASTM D4595)	22 x 21%
Apparent Opening Size		30 US STD Sieve
Percentage of Open Area		5%

## LIMITATIONS OF USE:

- |                         |   |
|-------------------------|---|
| Maximum Span            | 144"  |
| Maximum Non-Span        | Unlimited, Utilizing side overlapping details, page 4 |
| Maximum Design Pressure | +60 / -63 PSF   |
- Span (anchor span) equals the distance between the primary rows of anchors on opposing sides of the screen and when calculated with negative wind pressure, determines fastener size and spacing. "Opening Span" is equal to the opening size of the protected opening and when calculated with the positive wind pressure, determines the deflection for HVHZ applications. Refer to page 11 for Deflection Table.

All Geosynthetic Hurricane Screen assembly details depicted within these drawings are typical for the installation of this wind / rain abatement and impact system only. All other building components shown herein are depicted as existing or samples and not constructed by the screen company.

## INSTALLATION NOTES:

- Deflection is the minimum glass separation measured at mid span of the screen and subject to interpolation between listed spans (see tables on page 11). Separation offset may be achieved alone or by any combination thereof, Natural Deflection, Angled Style Screens, Storm Bars and Pneumatic Devices.
- Screen may be mounted with opposing primary anchored perimeters (span) in vertical, horizontal, or any alignment appropriate to the structure being protected.
- If the screen does not return to the structure it should extend past protected opening by distance equal to or greater than 1 ½ times the offset. For trapped openings the screen should extend complete to fill the opening.
- The screens may be installed at any height on the structure as long as the design pressure rating for the screens is not exceeded.
- Anchors on the non-primary perimeter side (span side) of the screen are optional (e.g. to limit potential sag in the screen or reduce movement on the free side or other site specific reasons).
- The thickness of typical facing materials i.e. stucco, siding, stone, brick, pavers, etc. are not to be considered part of the anchor embedment. Longer fasteners should be used to allow for facing materials.
- Anchor embedment into masonry shall be into the face shell, not mortar joints.
- All fully embedded anchors may be flush with the finished facing provided they have the correct embedment into the structure behind the finish material.
- Anchor installations should follow the manufacturer's recommended methods.
- Hex Nuts, Flange Nuts, Cap Nuts, Wing Nuts, etc. (¾" o.d. minimum), are acceptable when used with Hanger Bolt or Male Studs penetrating the fabric only.
- For attachment into female anchors, sidewalk bolts, washered head bolts or bolts with a standard washer are required.
- A caulk or sealant should be used with all wood penetrating anchors.
- All fasteners shall be corrosion resistant as specified in the IRC and IBC or stainless steel.
- Refer to pages 9 and 10 for approved anchors and anchor spacing.
- Refer to page 11 for deflection and storm bar tables.

## REVISIONS

Date:

Date:

Date:

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0223.13  
Expiration Date 01/26/2017  
By *[Signature]*  
Miami Dade Product Control

Engineering Review By:

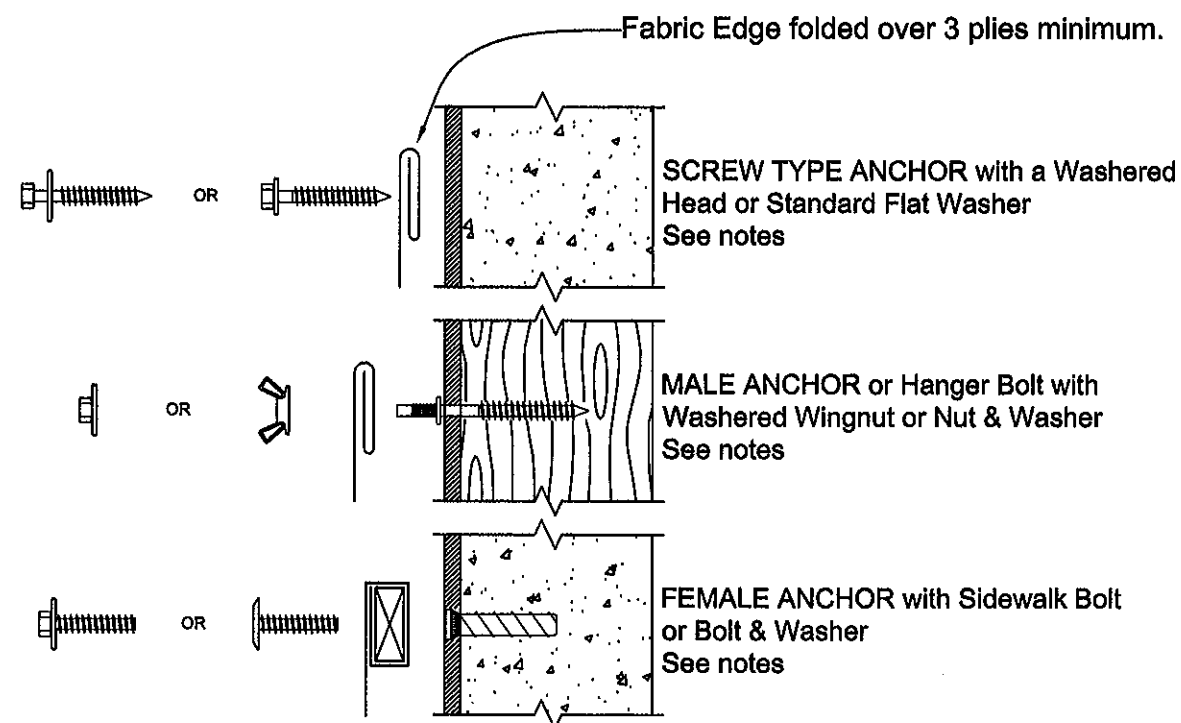
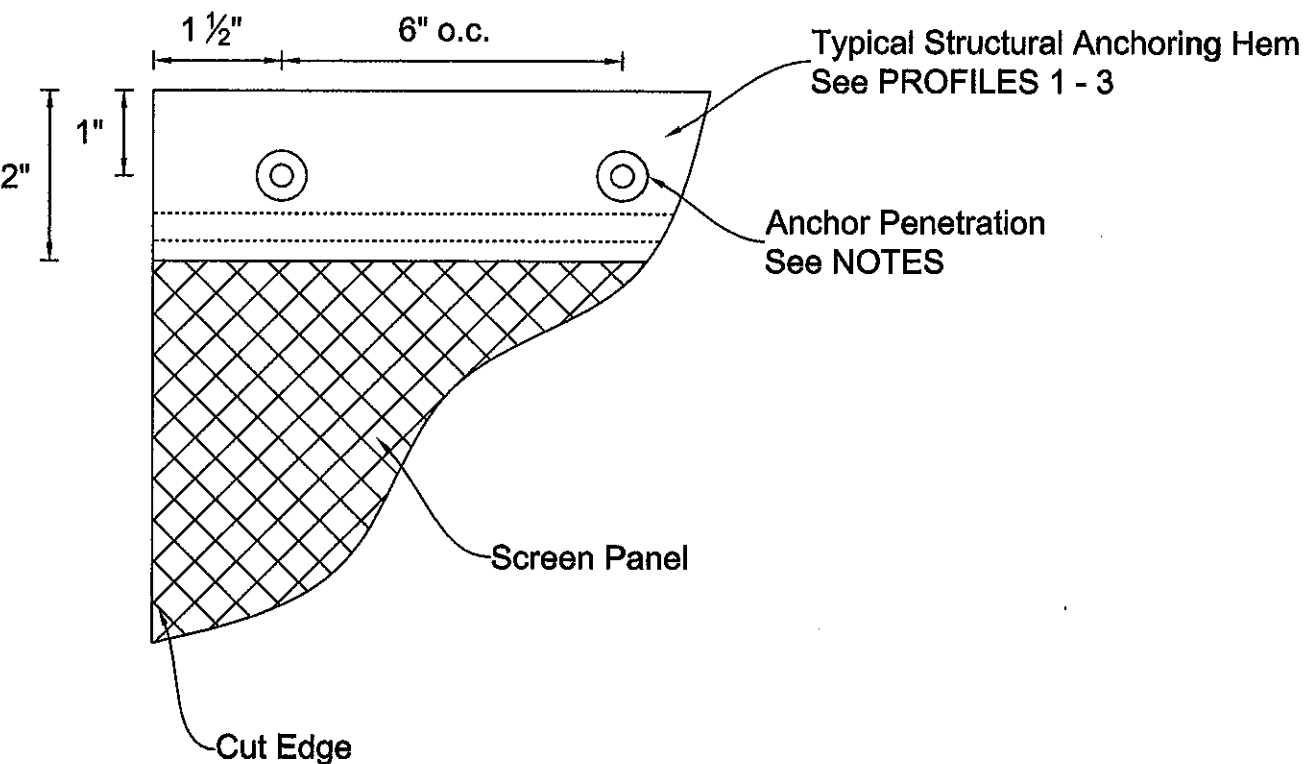
Gary D. Foreman PE  
FL PE 57343

## ARMOR SCREEN SERIES 63 HURRICANE PROTECTION

ARMOR SCREEN CORP.  
1881 Old Okeechobee Road  
West Palm Beach, FL 33409  
(561) 841-8890 www.armorscreen.com

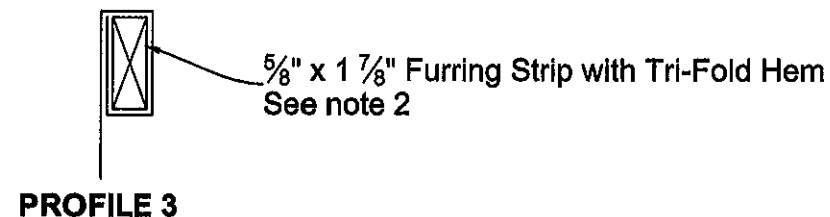
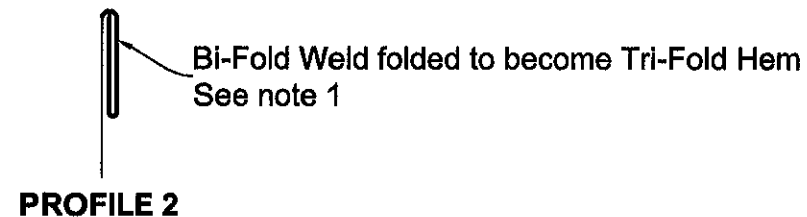
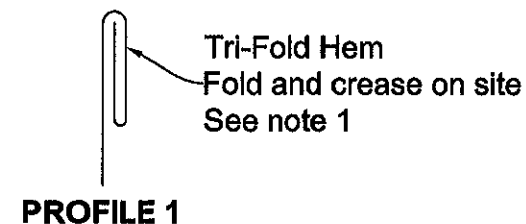
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DRAWING NO. 01-2010



**SAMPLE ANCHORING FOR PROFILES 1 - 3**  
 APPLIES TO VERTICAL WALL OR HORIZONTAL MOUNTING APPLICATIONS

## STRUCTURAL ANCHORING HEMS



### NOTES:

1. For Direct Screen Attachment, PROFILES 1 and 2, create a hem (see details on this page) by folding and creasing the screen, followed by creating the anchor penetration holes using a Scratch All, nail, or pointed object.
2. Pre-drill the furring strip 6" o.c. per anchor size or use a self-drilling screw (see pages 9 and 10). Secure the screen to the furring strip with staples to ensure positive attachment and eliminate the screen from unrolling.
3. Refer to pages 9 and 10 for anchor selection.

## SCREEN PANEL & HEM DETAILS

Engineering Review By:  Gary D. Foreman PE FL PE 57343	ARMOR SCREEN SERIES 63 HURRICANE PROTECTION		
	ARMOR SCREEN CORP. 1881 Old Okeechobee Road West Palm Beach, FL 33409 (561) 841-8890 www.armorscreen.com		
	Date: 10/01/10	Scale: Not to Scale	Page: 2 of 11
	DRAWING NO. 01-2010		

### REVISIONS

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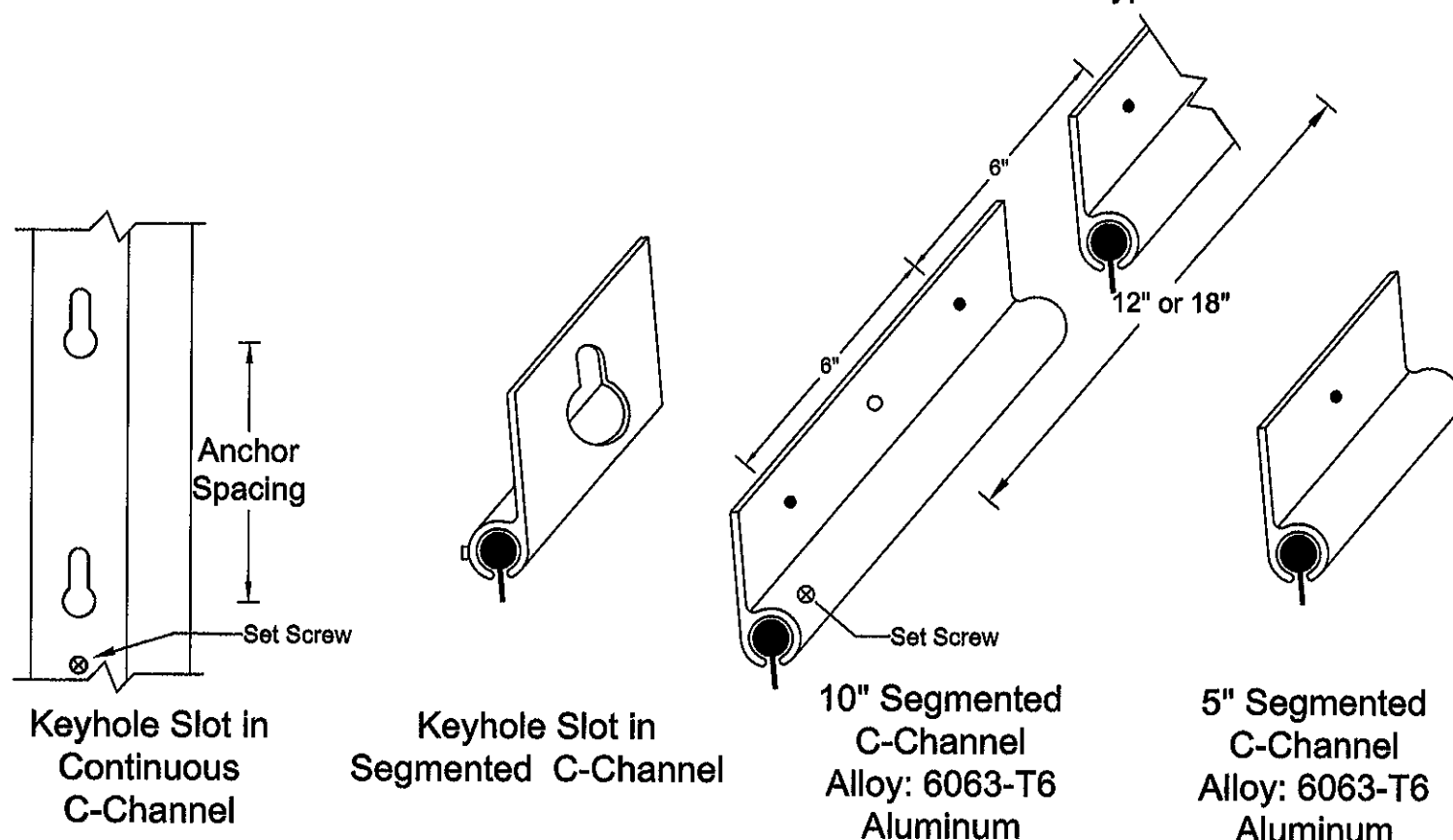
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 as complying with the Florida  
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 Expiration Date 01/26/2017  
 By   
 Miami Dade Product Control

Technical drawing of a rectangular plate. The plate has a cross-hatched pattern. A circular hole is located in the upper left corner. The overall height of the plate is dimensioned as 4.0". A detail view of the hole is shown to the right, indicating a diameter of 1.0".

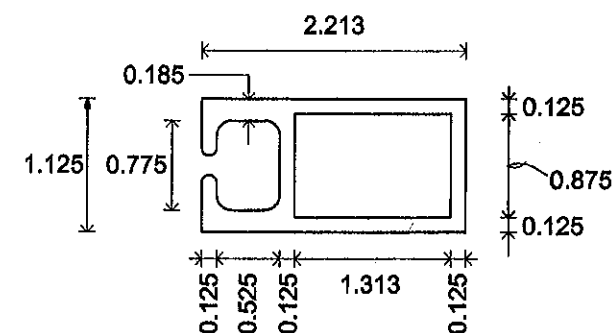
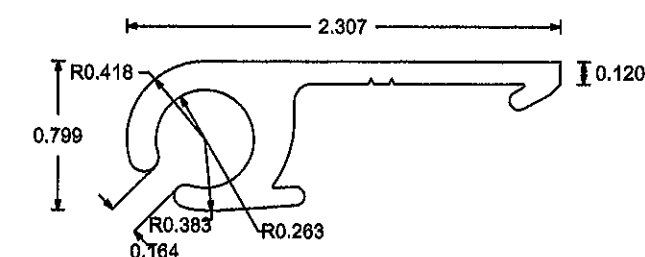
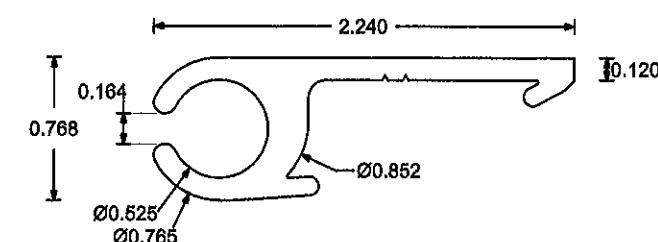
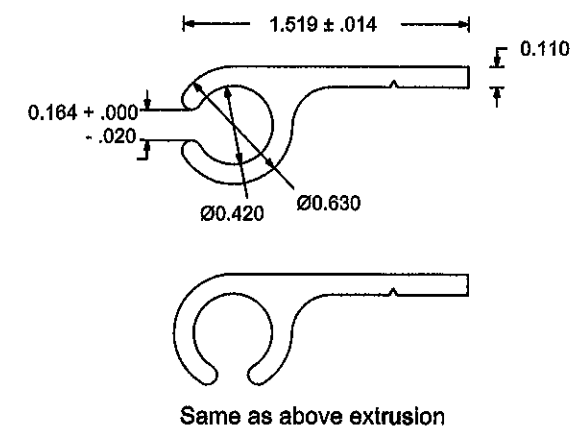
3.5" ±

- Support Edge, Trifold Seam around 4" Polypro webbing
- Sewing includes 2 rows, Double Lock Stitch, of Anafil Nylon T135 bonded thread or equal.
- Grommited through seam.

- Hemcord Dia.:  $\frac{5}{16}$ "
- Sewing includes 2 rows, Double Lock Stitch, of Anafil Nylon T135 Bonded Thread or equal.
- Reinforced welded hemcord includes a 2" trifold Polypro Seam sewn over the weld.



1. The length of the segmented C-Channel is governed by the strength of the fabric to C-Channel connection, not the hardware attachment to the C-Channel.
2. When a Keyhole Slot or washer is used on continuous C-Channel, a set screw through the channel and into the substrate is required to lock in place.
3. Refer to pages 9 and 10 for anchor selection.
4. A ¼" TEK Screw may be used to secure the C-Channel end to limit screen movement.



**C-Channel**  
**Alloy: 6063-T6 Aluminum**

**NOTE: Heavier alternate extrusion may be used.**

## GROMMET / HEMCORD / C-CHANNEL

Gary D Foreman PE  
FL PE 57343

**ARMOR SCREEN CORP.**  
1881 Old Okeechobee Road  
West Palm Beach, FL 33409  
(561) 841-8890 [www.armorscreen.com](http://www.armorscreen.com)

Date: 10/01/10	Scale: Not to Scale	Page: 3 of 11
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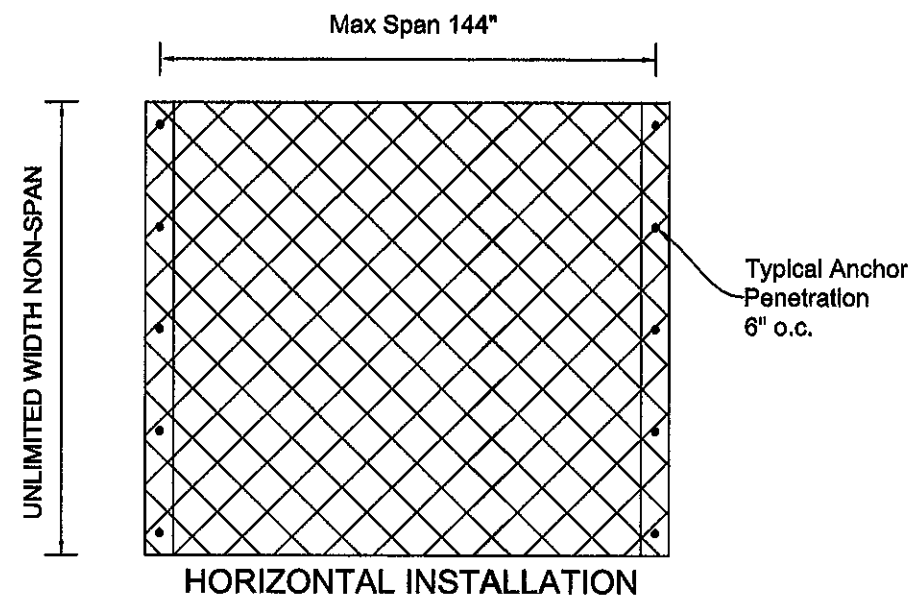
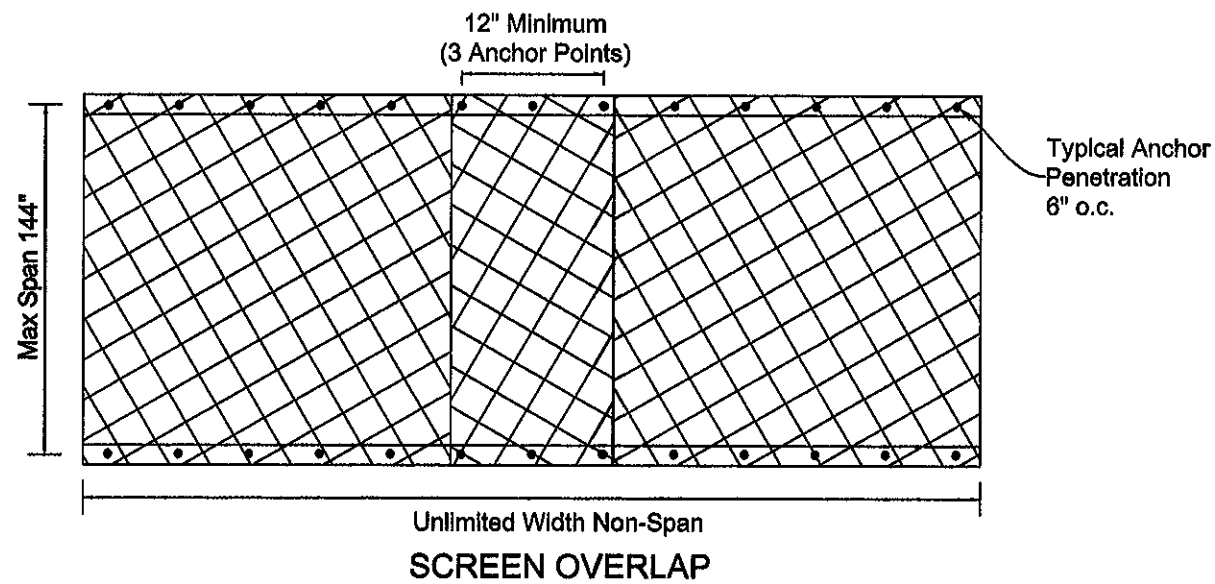
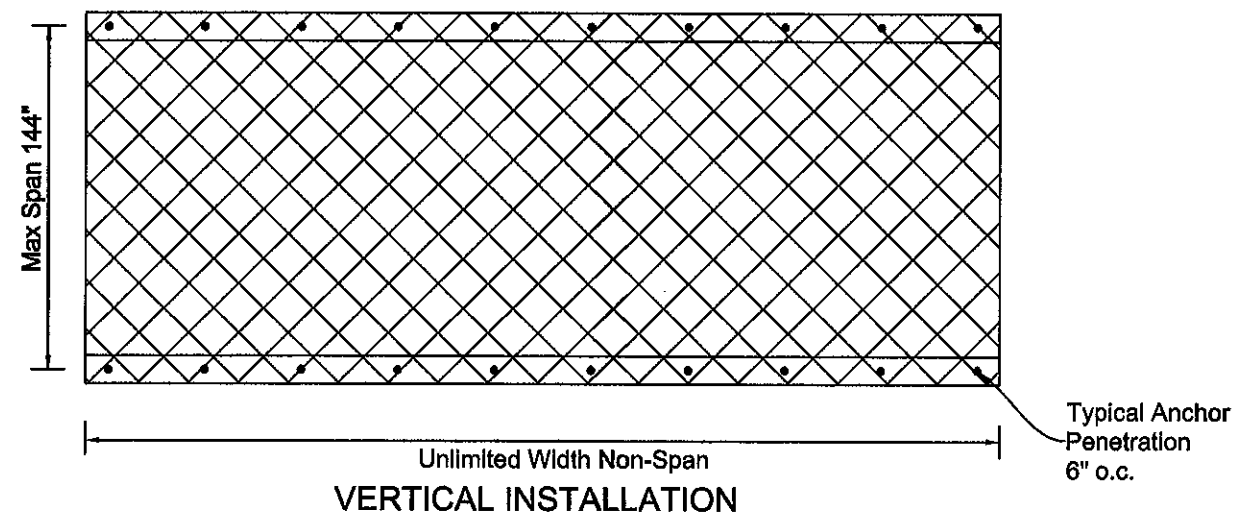
## REVISIONS

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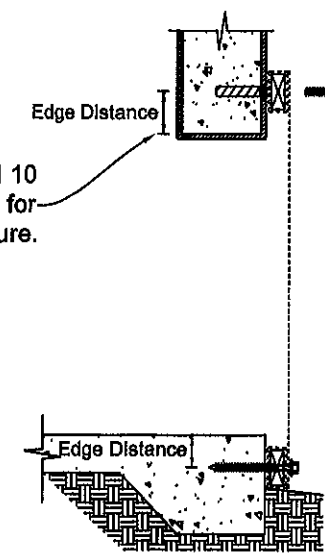
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Acceptance No 12-0223.13  
Expiration Date 01/26/2017  
By [Signature]  
Miami Dade Product Control



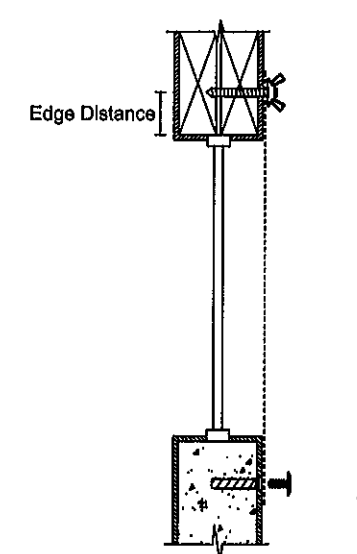
#### NOTES:

1. Screens may incorporate any combination of Structural Hem PROFILES 1 - 3 (page 2) with the appropriate anchors listed on pages 9 and 10.

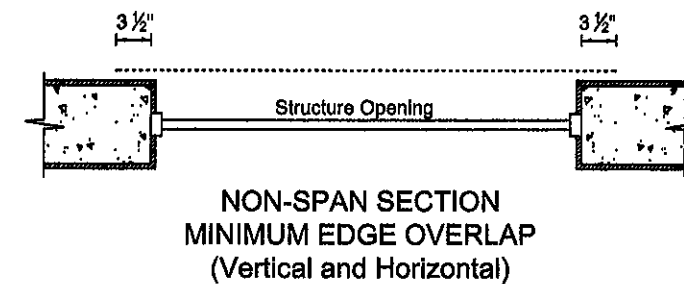
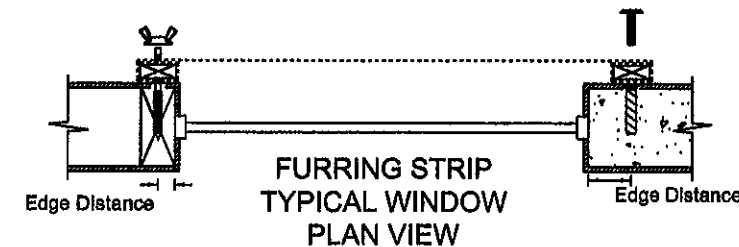
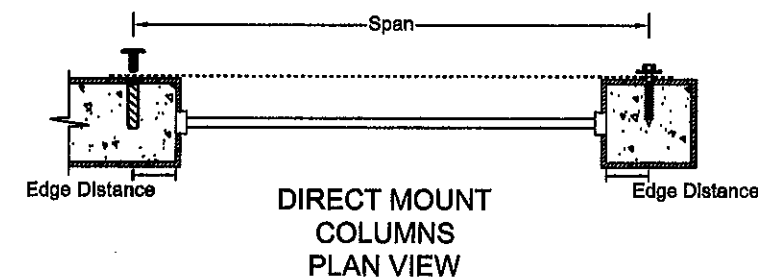
See Tables on pages 9 and 10 for minimum edge distances for specific fasteners and structure.




FURRING STRIP  
TYPICAL VERTICAL  
SECTIONAL VIEW



DIRECT MOUNT  
TYPICAL VERTICAL  
WINDOW  
SECTIONAL VIEW



## VERTICAL & HORIZONTAL SCREENS


<div>Engineering Review By:</div> <div> 2/16/12</div> <div>Gary D Foreman PE FL PE 57343</div>	<div>ARMOR SCREEN SERIES 63 HURRICANE PROTECTION</div>		
	<div>ARMOR SCREEN CORP. 1881 Old Okeechobee Road West Palm Beach, FL 33409 (561) 841-8890 <a href="http://www.armorscreen.com">www.armorscreen.com</a></div>		
	Date: 10/01/10	Scale: Not to Scale	Page: 4 of 11
	<div>DRAWING NO. 01-2010</div>		

#### REVISIONS

Date:

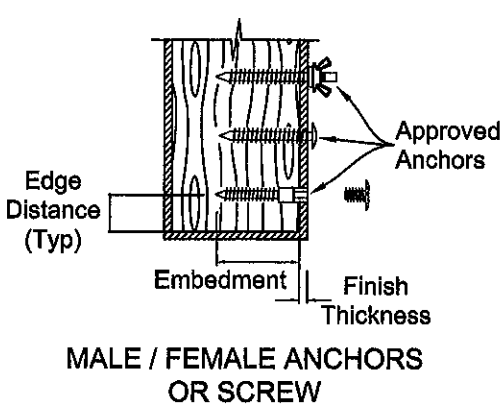
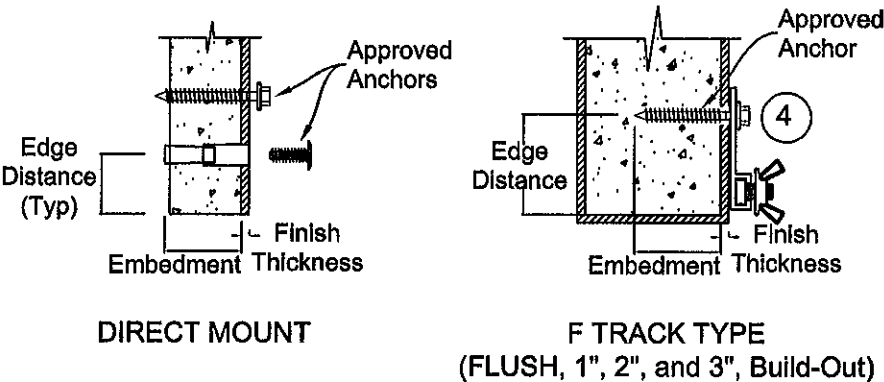
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Miami Dade Product Control

CONCRETE, CMU & FILLED CMU

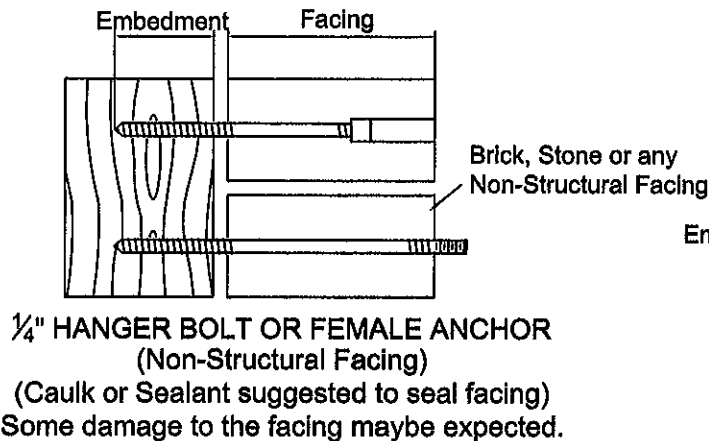
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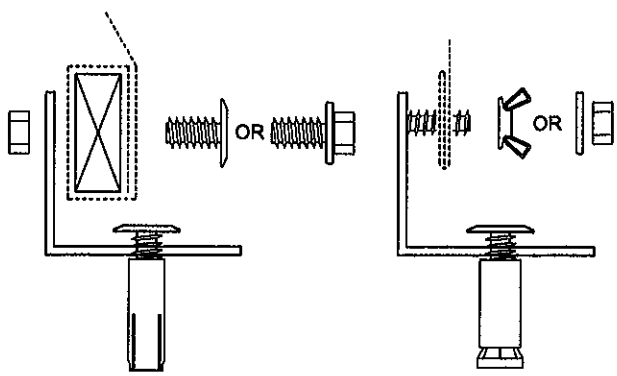
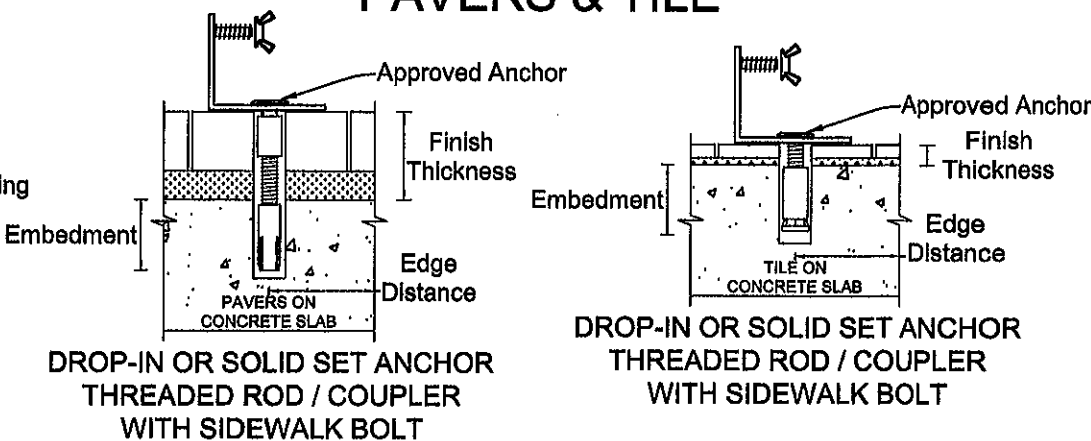
3/8" ANCHOR SPACING ~ ALUMINUM TO SUBSTRATE ONLY																		
Dia.	Anchor Description	Min. Embed.	Min. E.D.	Pressure (psf)	Span													
	Manufacturer Part Number				2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'			
3/8"	Drop-In Anchor		3 3/4"	30 (psf)	24"	36"	48"	60"	72"	84"	96"	108"	120"	132"	144"			
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	8"	8"	8"		
	Powers			50 (psf)	12"	12"	12"	12"	12"	12"	12"	8"	8"	8"	8"	6"	6"	
				60 (psf)	12"	12"	12"	12"	12"	12"	8"	8"	8"	6"	6"	6"		
				Calk-In Anchor	1 1/4"	3 3/4"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	8"	8"	8"	8"
							40 (psf)	12"	12"	12"	12"	12"	12"	8"	8"	8"	6"	6"
Powers		50 (psf)	12"	12"	12"		12"	12"	8"	8"	6"	6"	6"	6"				
		60 (psf)	12"	12"	12"		12"	8"	8"	6"	6"	--	--	--				

NOTE: All spans for 1/4" hardware are designed to +60 psf / -63 psf.

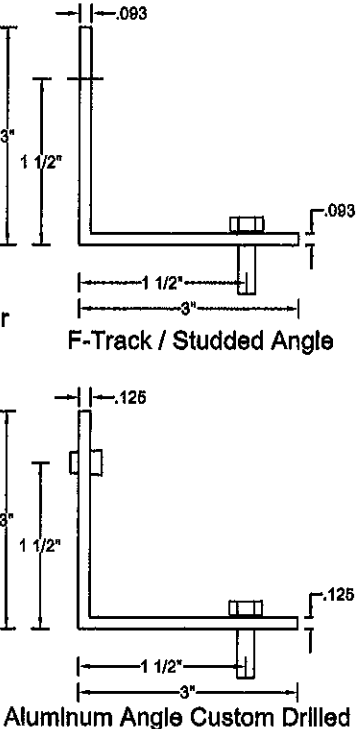
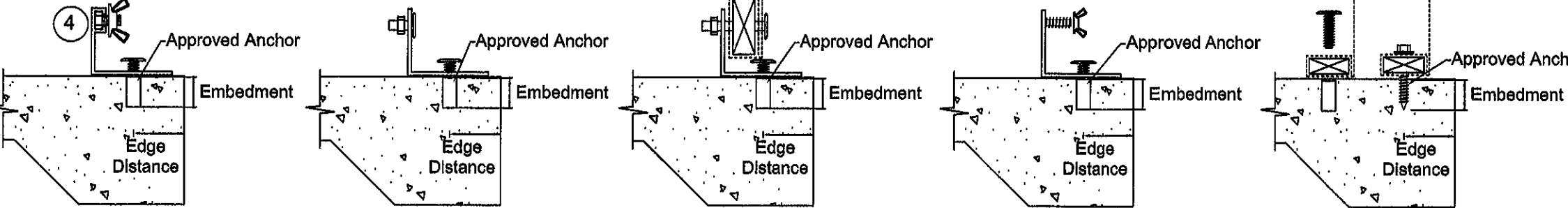
FRAME / BRICK FACADE



PAVERS & TILE



CONCRETE SLABS



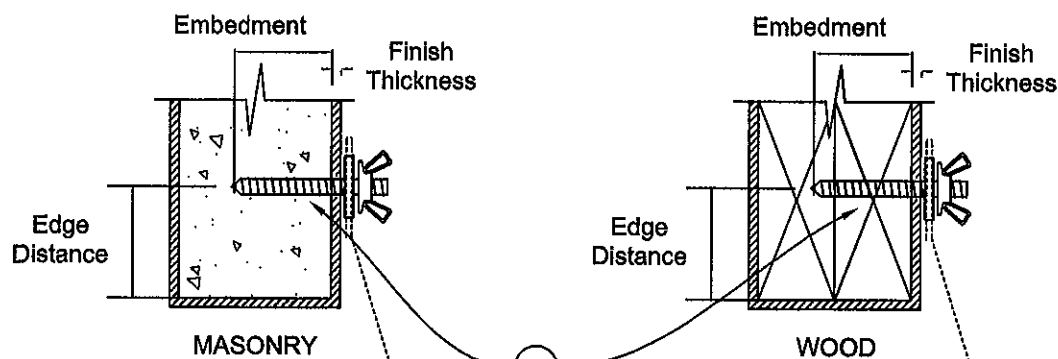
- NOTES:
- 1. For 1/4" anchors, see pages 9 and 10.
  - 2. For 3/8" anchor spacing for Aluminum Angle to substrate, see above table.
  - 3. Screen attachment to aluminum requires 6" on center maximum.
  - 4. Do not use Furring Strip System with F Track.
  - 5. Screens may incorporate any combination of Structural Hem PROFILES 1 - 3 (page 2) with the appropriate anchors listed on pages 9 and 10.
  - 6. F Track and Studded Angle to be minimum 6063-T6 x .093.
  - 7. Aluminum Angle, Custom Drilled to be minimum 6063-T6 x .125.

ANCHOR DETAILS

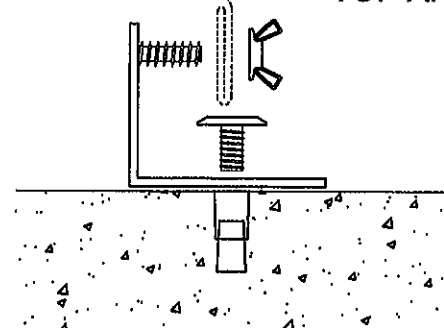
Engineering Review By:  Gary D. Foreman PE FL PE 57343	ARMOR SCREEN SERIES 63 HURRICANE PROTECTION		
	ARMOR SCREEN CORP. 1881 Old Okeechobee Road West Palm Beach, FL 33409 (561) 841-8890 www.armorscreen.com		
Date: 10/01/10	Scale: Not to Scale	Page: 5 of 11	
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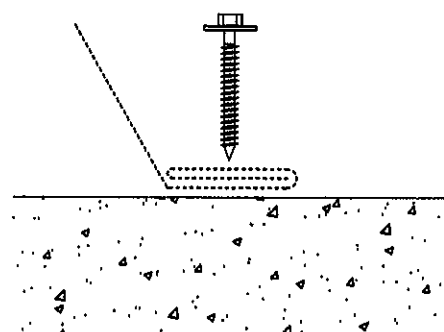




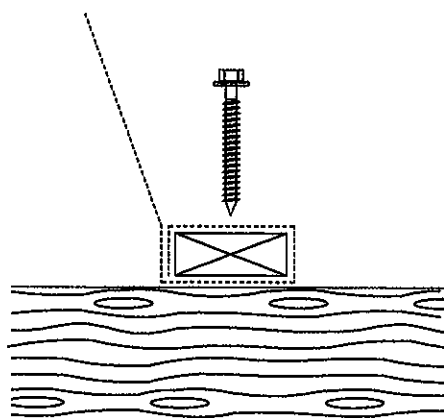
**DIRECT MOUNT  
TOP ANCHORING DETAIL**



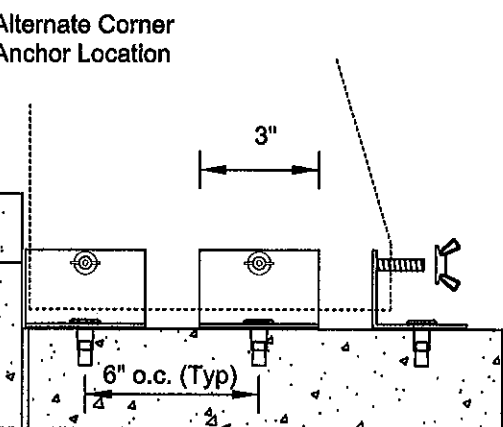
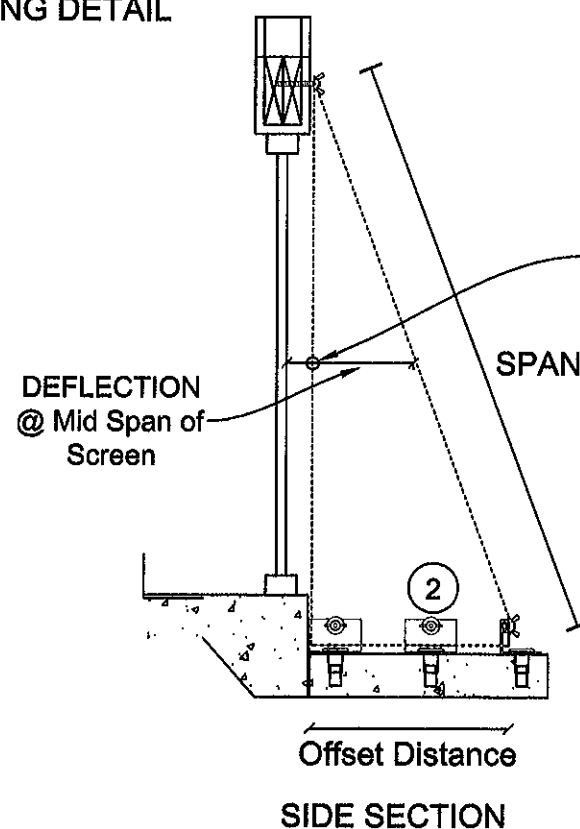
**CONCRETE SLAB  
Female Anchor &  
Sidewalk Bolt**



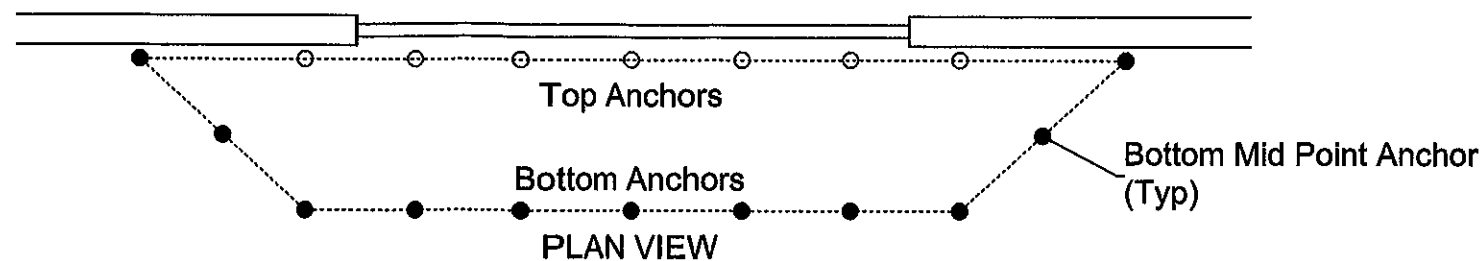
**CONCRETE SLAB  
Direct Screw Attachment**



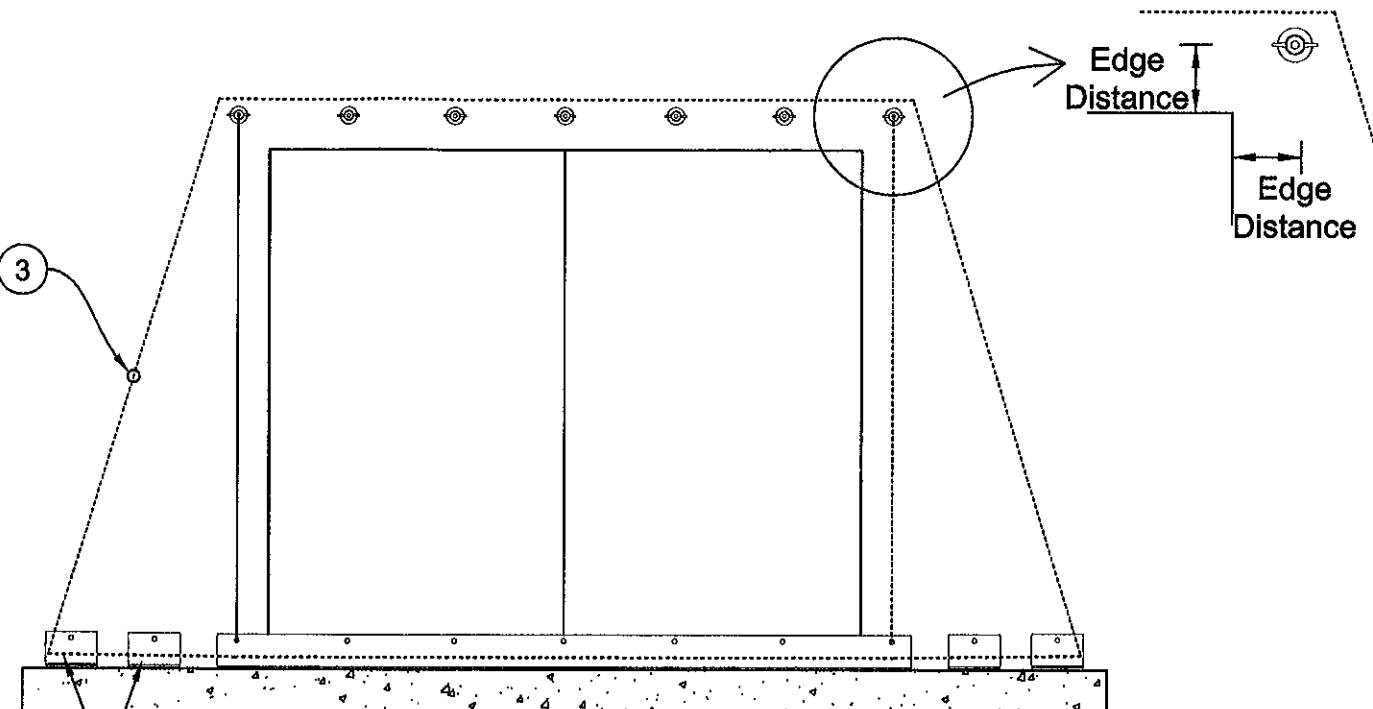
**DECK JOIST  
Direct Screw Attachment**



**Bottom Return Anchors  
Using Segmented Angle**



**PLAN VIEW**



**ELEVATION**

**ANGLED SCREEN NOTES:**

1. Refer to Deflection Table on page 11.
2. Bottom Return Requires a midpoint anchor.
3. Side Return (span side) anchors are optional.
4. Screens may incorporate any combination of Structural Hem PROFILES 1 - 3 (page 2) with the appropriate anchors listed on pages 9 and 10.

**ANGLED SCREEN**

	Engineering Review By:  <i>[Signature]</i>  Gary D Foreman PE FL RE 57343	ARMOR SCREEN SERIES 63 HURRICANE PROTECTION		
		ARMOR SCREEN CORP. 1881 Old Okeechobee Road West Palm Beach, FL 33409 (561) 841-8890 www.armorscreen.com		
		Date: 10/01/10	Scale: Not to Scale	Page: 6 of 11
		DRAWING NO. 01-2010		

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Date:

Date:

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Building Code  
Acceptance No. 2-0223.13  
Expiration Date 01/26/2017  
By *[Signature]*  
Miami Dade Product Control

# REVISIONS

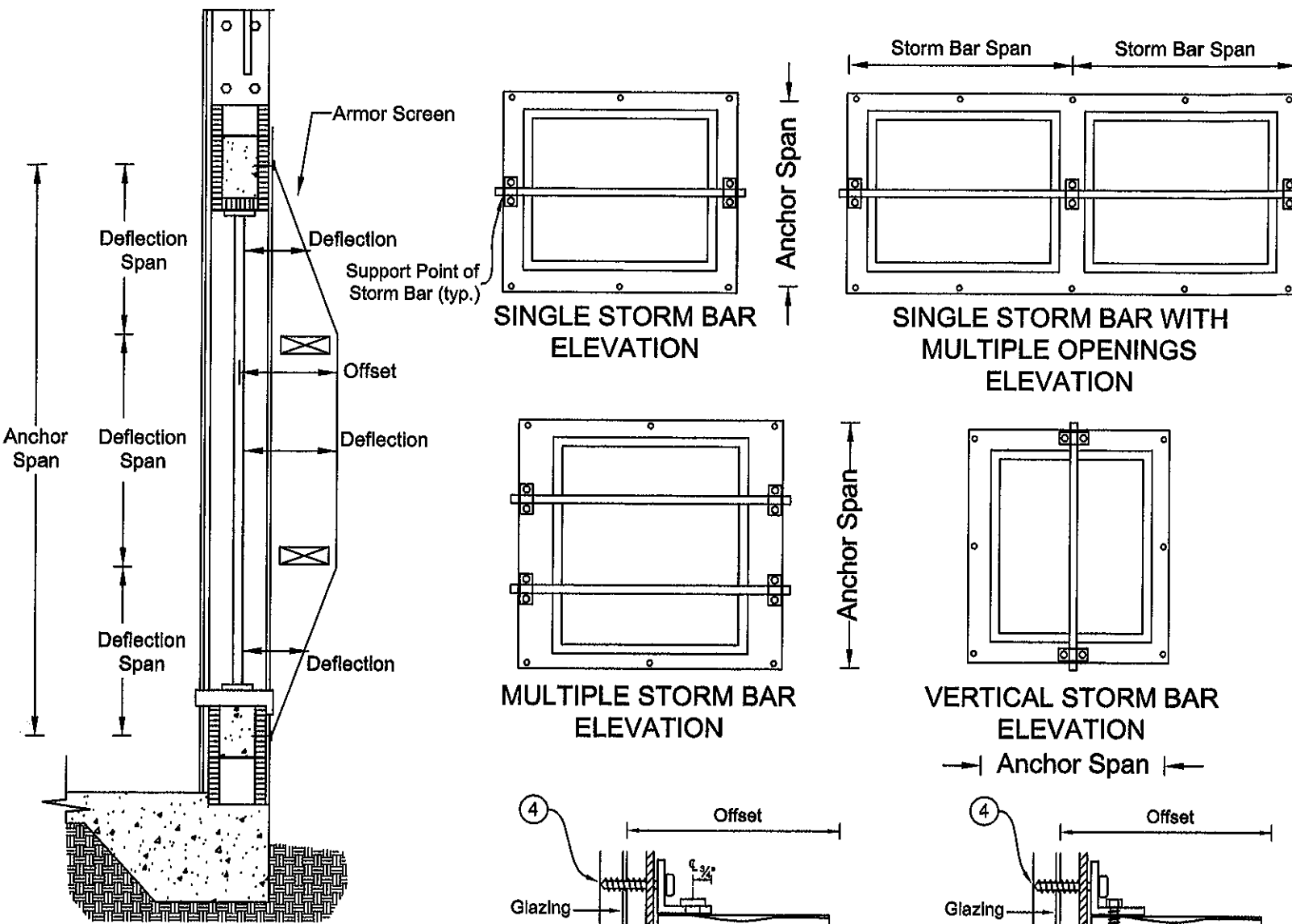
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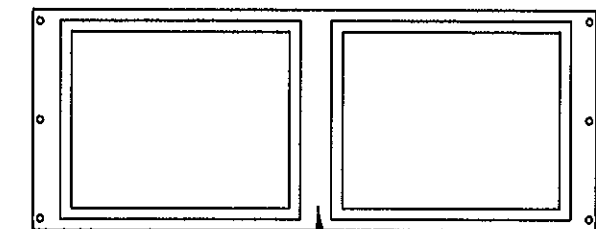
## STORM BAR NOTES:

1. Refer to page 11 for deflection tables, storm bar tables, and storm bar alloy.
2. The storm bar system is designed to achieve required deflection and may utilize one or more storm bars. The offset may be increased with blocking at the support.
3. Storm bars may be positioned horizontal, vertical, angled or as required.
4. The storm bar bracket may be permanent or removable and attached to the structure using a minimum of two (2) approved ¼" anchors. Refer to pages 9 and 10.
5. The storm bar bracket may be permanent or removable and attached to the structure using a minimum of one approved ¼" anchor. Refer to pages 9 and 10.
6. The storm bar bracket may be wall, floor or ceiling mounted.
7. The storm bar and screen should extend past the protected opening by the distance equal to or greater than 1 ½ times the offset.
8. The storm bar splits the anchor / screen span into multiple spans, each of which is used to determine the minimum deflection.
9. Screen anchors should be sized and spaced using full anchor / screen span.
10. Use "opening" span and positive wind pressure to determine minimum separation between screen and glazing.
11. Use "anchor" span and negative wind pressure to determine fastener size and spacing.

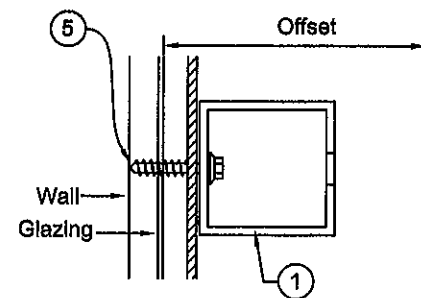
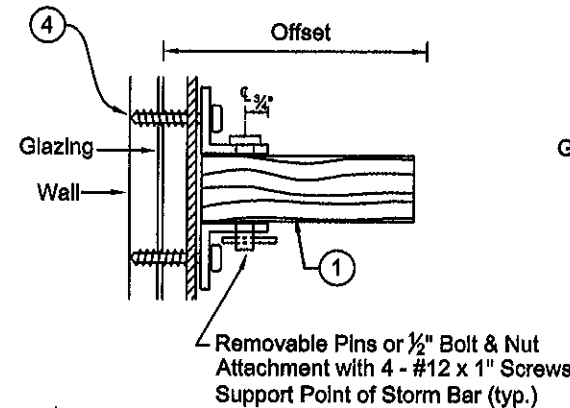


MULTIPLE STORM BAR WITH SINGLE OPENING

Anchor Span  
Opening Span

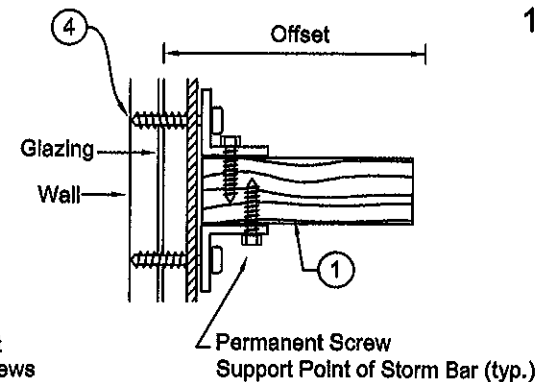


Building Structure between adjacent window / door frames may act as a Storm Bar if proper offset to the glazing is present. This applies to both vertical and horizontal applications.

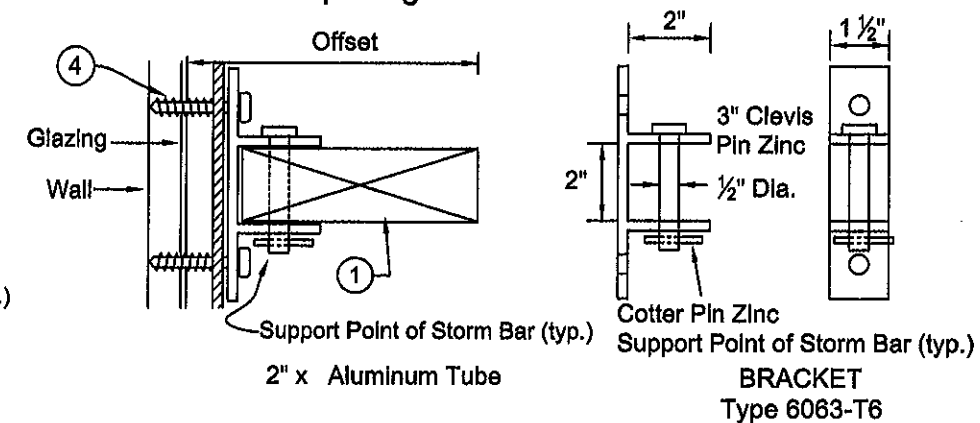


2" x 2" x 1/8" ALUMINUM TUBE  
Type 6063-T6

Refer to Storm Bar #4, page 11  
Support Point of Storm Bar (typ.)



ALTERNATE BRACKETS  
2" x 2" x 1 1/2" x 1/8" ALUMINUM ANGLE  
Refer to Storm Bar #1 & #2, page 11



STORM BAR WITH "H" BRACKET

## STORM BAR DEFLECTION SYSTEM

Engineering Review By:

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FL PE 57343

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SERIES 63

HURRICANE PROTECTION






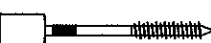



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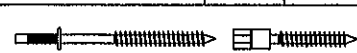
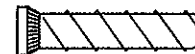

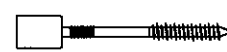


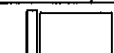
Date: 10/01/10 Scale: Not to Scale Page: 7 of 11





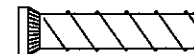

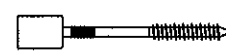


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[illegible]

3000 PSI CONCRETE					
Dia.	Anchor Description Manufacturer Part Number	Min. Embed.	Min. E.D.	Maximum Span (inches)	Anchor Spacing
¼"	Tapcon	1 ½"	3"	144"	6"
	Elco or ITW 				
¼"	Maxi-Set Tapcon	1 ½"	2 ½"	144"	6"
	ITW 				
¼"	Panelmate (Male or Female)	1 ¾"	2 ½"	144"	6"
	Elco 				
¼"	Panelmate Inserts	1 ⅝"	3"	144"	6"
	Elco 				
¼"	Tapcon SG	1 ¾"	2 ½"	144"	6"
	ITW (¼" x 2 ¼") 				
¼"	Sammy's SSC	2 ¼"	2 ½"	144"	6"
	ITW 				
¼"	Solid Set Anchor	⅞"	3"	132"	6"
	All Points 				
¼"	Calk-In Anchor	⅞"	3"	132"	6"
	Powers 				
¼"	Drop-In Anchor	1 "	3 "	144"	6"
	Powers 				

SOLID GROUTED CMU					
Dia.	Anchor Description Manufacturer Part Number	Min. Embed.	Min. E.D.	Maximum Span (inches)	Anchor Spacing
¼"	Spax Screw	1 ½"	2 ½"	144"	6"
	Spax 				
¼"	Tapcon	1 ½"	3"	144"	6"
	Elco or ITW 				
¼"	Maxi-Set Tapcon	1 ½"	2 ½"	144"	6"
	ITW 				
¼"	Panelmate (Male or Female)	1 ¾"	2 ½"	144"	6"
	Elco 				
¼"	Panelmate Inserts	1 ⅝"	3"	108"	6"
	Elco 				
¼"	Tapcon SG	1 ¾"	2 ½"	144"	6"
	ITW (¼" x 2 ¼") 				
¼"	Sammy's SSC	2 ¼"	2 ½"	144"	6"
	ITW 				
¼"	Solid Set Anchor	⅞"	3"	96"	6"
	All Points 				
¼"	Calk-In Anchor	⅞"	3"	108"	6"
	Powers 				
¼"	Drop-In Anchor	1 "	3 "	132"	6"
	Powers 				

CONCRETE BLOCK (CMU)					
Dia.	Anchor Description Manufacturer Part Number	Min. Embed.	Min. E.D.	Maximum Span (Inches)	Anchor Spacing
¼"	Spax Screw	1 ¼"	2 ½"	72"	6"
	Spax 				
¼"	Tapcon	1 ¼"	2 ½"	72"	6"
	Elco or ITW 				
¼"	Maxi-Set Tapcon	1"	4"	36"	6"
	ITW 				
¼"	Panelmate (Male or Female)	1 ¼"	3 ½"	120"	6"
	Elco 				
¼"	Panelmate Inserts	1 ¼"	3 ½"	120"	6"
	Elco 				
¼"	Tapcon SG	1 ¼"	2 ½"	72"	6"
	ITW 				
¼"	Sammy's SSC	1 ¼"	2 ½"	72"	6"
	ITW 				
¼"	Solid Set Anchor	⅞"	3"	96"	6"
	All Points 				
¼"	Calk-In Anchor	⅞"	3"	84"	6"
	Powers 				

#### NOTES:

- Maximum spans designed to +60 psf / -63 psf.
- Provide longer fasteners, if required, to allow for thickness of non-structural finishes such as stucco, plaster, brick, stone, siding, etc.
- All anchor holes to be clean and dust free before inserting intended anchor.
- All anchors to be as specified.
- Edge distances and embedments are minimums.

Engineering Review By:

Gary D Foreman PE  
FL PE 57343

ARMOR SCREEN

SERIES 63

HURRICANE PROTECTION

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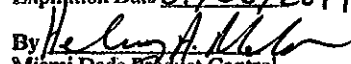
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